Capability Gap 6 DCGS-MC

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Data Mining and Dissemination

JCA: 4.5.2.0 Intelligence Architecture Development
MCT 2.3 Process and Exploit Collected Information / Intelligence
MCT 2.4 Produce Intelligence
Deficiencies in Conditions: Limited ability to efficiently identify and display in a usable format, key data within the volume of collected data requiring processing and exploitation.

Inputs Utilized for Analysis:

- EMW Capabilities List (2005-2019+) dtd 2005
- MCSIR-E ICD dtd JUL 2006
- Marine Corps Operating Concepts for a Changing Security Environment dtd MAR 2005
- UUNS – Tactical Imagery Production System for production of PSYOPS material
- Marine Corps Midrange Threat Estimate: 2005-2015
- Current Funding Data: POM-08 and Supplemental
- Marine Corps Center for Lessons Learned Warfighting Program Evaluation Board POM-10 Guidance (Draft)

Gap, Excess, or Shortfall

Equipment	Program of Record -TBD
Shortfall	Limited ability to efficiently identify and display in a usable format, key data within the volume of collected data requiring processing and exploitation.

Current PORs

Distributed Common Ground Station (DCGS)

Global Communication and Control System – Integrated Imagery and Intelligence (GCCS-I3)

Intelligence Analysis System (IAS)

Intelligence Broadcast Receiver (IBR)

Joint Worldwide Intelligence Communications System (JWICS)

MAGTF Secondary Imagery Dissemination System (MSIDS)

Tactical Exploitation Group (TEG)

Tactical Exploitation of National Capabilities (TENCAP)

Impact on the MAGTF

- **Gaps were identified during MCISR-E FSA, CDD FEA, and during GWOT**
  - **Access to appropriate intelligence products is vital to battlefield decision making**
  - **As collection assets have increased, volume of intelligence data has increased as well. Currently, the MAGTF has more intelligence information available than it can process, view, or use**
  - **Delivering appropriate intelligence information to DO units is a similar problem with increased complexity**

Key Attributes Needed to Resolve the Gap

- **Identify the key attributes and associated measures of effectiveness a solution will possess.**
  - **Must be able to visually display multi-INT data sources**
  - **Must be able to georegister multi-INT reports**
  - **Must be interoperable with USMC systems, other services, other government agencies, non-government agencies, and coalition partners**

New or Current Capability Issues

- **Was the gap identified because we are establishing a new capability?**
  - **No, this gap has been made more important due to increased collection capability and capacity, however.**
- **Is there a similar or duplicative capability gap being analyzed?**
  - **Yes, Gap 3 is similar and can be met with a single solution, DCGS-MC**
- **Is the basic capability MC unique?**
  - **No. All services have the same concern and all are using the similar solution as directed by JROC**

Integration Concerns

- **Describe critical linkage(s) to other Integration Division.**
  - **Must share data with current and future operations systems. Requires integration with C2ID**
  - **Must be interoperable with the joint/ interagency world. Multiple working groups exist for this purpose.**

Possible DOTMLPF Impacts

- **Doctrine.**
  - **What published doctrine addresses the capability?**
    - **MCWP 2-1 and 2-4 directly address the capability**
  - **What doctrinal changes result from new/enhanced capabilities being introduced to mitigate this gap?**
    - **None**

- **Organization**
  - **Assumptions: organizational change issues limited to adjustments within existing force structure.**
  - **What organizational changes, if any, will eliminate or mitigate the capability gap?**
    - **None**

DOTMLPF Impacts

- **Training**
  - **How could training be modified or provided to mitigate or eliminate the gap?**
    - **None**
  - **What training requirements are identified for the fielding of new equipment?**
    - **Minimal new equipment training will be required. All applications/ functions will be the same.**
  - **Who can provide the required training?**
    - **Initially will be provided by Project Office**
    - **Will be transitioned into formal school**

DOTMLPF Impacts

- **Leadership and Education**
  - **Can leadership decisions mitigate gap?**
    - **No**

- **Personnel**
  - **Describe personnel changes which can be done to eliminate gap?**
    - **None, existing MOS's will be able to mitigate the gap once better equipment is made available**
  - **Can MOS realignment mitigate the gap?**
    - **No.**

- **Facilities**
  - **Describe facility (include MILCON) changes required fully or partially to close the gap?**
    - **No new facilities, but some modifications may be necessary for fixed/ garrisson sites**

DOTMLPF Impacts

- **Materiel**
  - **Are there current materiel solutions available to mitigate the capability gap?**
    - **DCGS-MC is under development to mitigate these gaps. Milestone A decision is scheduled for 2Q FY08.**
  - **Are there any current service/joint solutions available which meets the requested capability?**
    - **Other services/ agencies are developing DCGS solutions.**
  - **If new start describe recommended solutions.**
    - **DCGS-MC is a new start but leverages existing programs.**
  - **If recommended solution is a material solution describe DOTMLPF implications.**

Possible Solutions
Non-Materiel/Materiel

DCGS-MC

- **Built on Joint DIB standards**
- **Program will replace TEG, TPC, JSTARS-CGS, IAS, and TCAC**
- **CDD being drafted**

Recommendation

- **Recommendation:**

- **BACK UP SLIDES**

MA-ICD Gaps

- **Expose USMC Multi-INT data**
- **Provide Analytic capabilities**
- **Provide collection management**

MCISR-E Gaps

- **<u>1.2.1 Planning.</u> There is a limited ability to integrate planning and execution between Intelligence, Operations, and other staff sections. Intelligence planning is also affected by the limited ability of USMC intelligence systems to exchange data with and access data residing in systems owned by other Marine Corps units/organizations, other service components, theater elements, and government/non-government organizations external to the DOD. Collections planning is affected by a limited ability to track the status of an intelligence requirement through all phases of the intelligence cycle, and a limited ability to provide planners real time situational awareness of ongoing collections operations, the status of employed assets, and the status of assets not engaged in current operations.**
- **<u>1.2.2 Collection.</u> There is a limited ability to transmit gathered data/information in a timely, comprehensive manner to intelligence processing centers, data stores, and from sensor to operator/analyst.**

MCISR-E Gaps

- **<u>1.2.3 Processing and Exploitation.</u> USMC intelligence systems are incapable of efficiently converting large volumes of organic and non-organic collected data into a form usable by analysts. This includes identifying key data within the volume of collected data requiring processing and exploitation, filtering data by area of operations (AO) and area of interest, and sorting data by relevance to the Commander's Critical Information Requirements (CCIRs).**
- **<u>1.2.4 Production.</u> USMC intelligence systems have limited abilities to display multidiscipline information in a single view, to rapidly identify time-sensitive information, and to provide tailored multi-level security (MLS) products.**
- **<u>1.2.5 Dissemination.</u> USMC Intelligence requires a more robust capability to post, notify, publish, and allow subscription to intelligence and intelligence information via standardized constructs such as push/pull, post/notify, and publish/subscribe.**

Timeline

- **CD 3Q07**
- **MSA 2Q08**
- **AOA has been initiated complete by MSA**
- **CDD being drafted, can be staffed Post- MSA**

Capability Sets and Planned Increments

Increments

- **1: Cap Sets D, I, & G**
- **2: Cap Sets D, I, G, A, & M**
- **3: Cap Sets D, I, G, A, M, &S**

Cap Sets

- **D: DCGS Core- data interoperability, database access**
- **I: IMINT Functions**
- **G: GEOINT functions**
- **A: All-source fusion and analysis**
- **M: MTI**
- **S: SGINT functions**